

Claim 52 recites "an inlet for adding at least one cell to the chamber." Claim 53 recites a chamber "further comprising at least one cell." Claim 54 recites at least one cell located within the chamber. Claim 55 recites at least one cell. Support for these claims can be found throughout the specification, and, as one example, on page 10, lines 9-22.

Claim 56 recites at least one cell that is "able to grow during the chemical or biological reaction." Support for this claim can be found throughout the specification, for example, on page 2, lines 21-24.

Claims 57 recites at least one cell "able to metabolize the starting material." Support for this claim can be found in the specification, for example, on page 10, line 19.

Independent claim 58 recites "a reaction unit including a chamber having a volume of less than 1 ml, an inlet for adding at least one living cell to the chamber, and an outlet for release of a product of a reaction involving the living cell." Support for this amendment can be found throughout the specification, for example, on page 10, lines 9-11.

Claim 59 depends on claim 58, further reciting "an inlet connectable to a source of a chemical or biological starting material." Claim 60 recites a "chemical or biological reaction." Support for these claims can be found throughout the specification, for example, on page 6, lines 14-15.

Claims 61-64 recite various chamber volumes. Support for these claims can be found throughout the specification and, as one example, on page 8, lines 5-10.

Claim 65 recites a reaction unit that "comprises and etched portion of an article." Claim 66 recites "etched silicon." Support for these amendments can be found throughout the specification, for example, on page 6, lines 7-8.

Claim 67 recites a mixing unit that is "fluidly connectable to the inlet of the chamber." Support for this amendment may be found throughout the specification, for example, on page 7, lines 6-14.

Claims 68-71 recite various aspects of mixing units. Support for these amendments may be found throughout the specification, for example, on page 7, lines 20-31.

Claim 72 recites a mixing unit "attachable to and separable from the reaction unit." Support for this amendment may be found throughout the specification, for example, on page 12, lines 19-20.

Claims 73 and 74 recite mixing chambers having various volumes. Support for these amendments can be found in the specification, for example, on page 8, lines 7-8.

Claims 75-79 additionally recite various aspects including heating units. These claims are supported by the specification, for example, on page 8, lines 28-31, or on page 12, lines 19-20.

CONCLUSION

A favorable first Office Action is respectfully requested.

If, for any reason the Examiner is of the opinion that a telephone conversation with Applicants' representative would expedite prosecution, the Examiner is kindly invited to contact the undersigned at 617-720-3500.

The enclosed check includes the fee for this amendment. If the fee is insufficient or if extensions of time are necessary, please charge the balance to the account of the undersigned, Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,



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